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ENVIRONMENTAL REVIEW CHECKLIST/ ENVIRONMENTAL MITIGATION AND MONITORING PLAN(ERC/EMMP)

for High-quality edge banding solution

Avangardi LLC

Implemented under: USAID Economic Security Program

IEE DCN: 2019-GEO-002

Prepared by: Irma Melikishvili, Environmental Specialist

ENVIRONMENTAL REVIEW CHECKLIST FOR IDENTIFYING POTENTIAL ENVIRONMENTAL IMPACTS OF PROJECT ACTIVITIES AND PROCESSES

The Environmental Review Checklist (ERC) and Environmental Mitigation and Monitoring Plan (EMMP) is intended for use by implementing partners to:

- assess activity-specific baseline conditions, including applicable environmental requirements;
- identify potential adverse environmental effects associated with planned activities; and
- develop EMMPs that can effectively avoid or adequately minimize the identified effects.

If implementing partners are in doubt about whether a planned activity requires preparation of an ERC, they should contact their Contracting Officer's Representative (COR)/Agreement Officer's Representative (AOR) for clarification. In turn, the COR/AOR should contact their Mission Environmental Officer (MEO) if they have any questions. In special circumstances and with approval of the BEO it is possible to have one very comprehensive ERC/EMMP for multiple sub-activities if they are similar in scope. (When preparing the ERC/EMMP, please indicate "not applicable" for items that have no bearing on the activity.) The ERC/EMMP should be completed by an environmental specialist. **The ERC/EMMP must be completed and approved prior to the activity beginning.**

1. Activity and Site Information

Project Name: (as stated in the IEE)	The USAID Economic Security Program
Mission/Country:	Georgia
DCN of Original IEE:	2019-GEO-002
DCNs of IEE Amendments	N/A
Activity/Site/Grantee Name:	High-quality edge banding solution Avangardi LLC
Type of Activity:	Furniture design and production
Implementing Partner:	DAI
Name and Organization of Preparer:	Irma Melikishvili, Environmental Specialist, DAI
Date Prepared:	April 2022

2. Activity Description

2.1. Activity purpose

The USAID Economic Security Program will support the grant applicant in procuring a PU/PUR edge banding machine and upgrading the production line. PU/PUR edge banding machine creates invisible joints. The bond holds firm against moisture, water, and heat, which is very important for kitchen and bathroom worktops. The introduction of high-tech PU/PUR edge banding machine services will correspond to the image of a company focused on high-quality services and products. It will positively affect its reputation and expand its consumer segment.

2.2. Total funding in USD

The project's budget is 350,000 GEL. The USAID Economic Security Program will support the grant applicant procuring the equipment with 200,000.00 GEL ((57,14%), about 66,000 USD, and a current exchange rate-3.03). The grant applicant will use this machinery to introduce a new production line. The grant applicant will contribute to the project implementation with 150,000.00 GEL (42,86%), about 49,500 USD with a current exchange rate-3.03).

2.3. Direct Beneficiaries, e.g., size of the community, number of school children, etc.

The company's current employees, about fifty people, will benefit from the project implementation. The project will further scale up the company's business in general. Besides, the majority of furniture manufacturers are small entrepreneurs (craftsmen). Unlike big companies, they are deprived of the opportunity to pre-process furniture material and then make custom-made products from this material. Therefore, the service provided by the project will enable many small entrepreneurs and independent craftsmen to offer better products to their customers and thus increase the income they generate.

2.4. Number of existing employees and annual revenue, if this is a business

Currently, Avangard has more than 50 employees (as of January 1, 2022). For the recent 2019, 2020, and 2021-years, the grant applicant's income accounted for 3 409 349 GEL, 3 812 538 GEL, and 5 345 885 GEL.

2.5. Implementation timeframe and schedule

The project implementation period is 6 months.

2.6. A detailed description of activity

2.6.1. Steps that will be taken to accomplish the activity, including mobilization, site preparation, site restoration, and demobilization, if applicable;

This project envisages the purchase of a high-tech PU/PUR edge banding machine and its deployment in grant applicants' existing enterprises. After receiving the machine, the grant applicant's staff will ensure its installation and be responsible for the complete operational services of the equipment.

2.6.2. Items that will be purchased (This section should fully describe what funds are being used for.)

Item Description	Quantity	Cost (USAID Funds)	Cost (Grantee Funds)
Purchase PU/PUR edge banding machine	1	200,000	114,000
Delivery and installation cost		0	36,000 GEL
		200,000 GEL (66,000 USD)	150,000 (49,500 USD)

2.6.3. What entity will be responsible for the maintenance or sustainability of the activity after completion or handover?

The grant Applicant will be responsible for the maintenance or sustainability of the activity after handover.

2.7. Location of activity, e.g. name of village or town, street address, province

Peikarta st 66; Tbilisi; Georgia

2.8. Detailed description of site

2.8.1. Existing setting, e.g., urban, village, agricultural, or undisturbed land

The grant applicant's facility is located in the urban area of Tbilisi, in the part of the city where similar types of small industries take place. The production facility is located in a newly renovated building. The company is located on approximately 1700 sq.m, including a yard and a building. It is a family-owned business that has been active for over 17 years in Georgia, providing stable jobs to more than 50 employees (as of January 1, 2022).


2.8.2. Size of the facility or hectares of land

Coordinates: 41.783909, 44.794138



2.9. Photos of site, items to be purchased, engineering construction plans (when available)



Equipment	Technical Data	Photo
Edge Banding Machine	<p>Workpiece height: 8-6000</p> <p>Feed speed: 8-20m/min</p> <p>The thickness of edge banding material in rolls/strips: 0.4-3mm/3-8mm</p> <p>Gluing unit: 1.5kg</p> <p>Workpiece length: 150-4250mm</p> <p>Minimum workpiece width 85mm</p>	

3. Activity-Specific Baseline Environmental Conditions

3.1. Population characteristics

The activity site is located in Tbilisi, Georgia's capital city. The total area of Tbilisi is 726 square kilometers. The estimated population of Tbilisi is 1,171,100 people.

3.2. Geography

The activity site is located in Tbilisi. The city lies on the Mtkvari (Kura) Riverbanks 380-600 meters above sea level. The main water artery is the Mtkvari River crossing the city from northwest to southeast. Floods are common during spring and early summer, but the river is shallow in winter. The Mtkvari River's right tributaries are: Digmis-Tskali, Vere and Cavkisi-Tskali Rivers. Its left tributaries are Gldaniskhevi and Lochini Rivers. The Mtkvati riverbed in Tbilisi fluctuates between 425m (in Digomi) and 370m (in Ortachala) above sea level.

3.3. Climate

Tbilisi has a mildly warm, humid subtropical climate. Typically, winter is mildly cold, and summer is hot. The average annual temperature is 12,7 °C; January is 0,9 °C, and July is 24,4 °C.

The absolute minimum recorded temperature is -23 °C, and the absolute maximum is 40 °C. The average annual precipitation is 560-mm. Snow falls on average 15-25 days a year. North and northwesterly winds dominate throughout the year; however, southeasterly winds are common.

3.4. Natural resources, e.g., nearby forest/protected areas, ground and surface water resources

No nearby natural resources, e.g., nearby forest/protected areas, are presented in the vicinity of the site. The River Mtkvari is within 0.5 km of the site.

3.5. Current land use and ownership of land

The existing operational facility is located on the land owned by the grant applicant. The activity site is in the urban area of Tbilisi.

3.6. Other relevant description of current environmental conditions in proximity to the activity

The activity site is located in an area with no proximity to places of environmental importance, e.g., surface water, forest, habitat of endangered species, wetlands, etc.

4. Legal, Regulatory, and Permitting Requirements

4.1. Does this activity require an EIA under a national law? No

4.2. Applicable National or local permits for this activity, responsible party, and schedule for obtaining them:

Permit Type	Responsible party	Schedule
Zoning		N/A
Building/Construction		N/A
Source Material Extraction		N/A
Waste Disposal	Grant Applicant	The agreement needs renewal annually
Agreement with the city municipality to dispose of non-hazardous waste in the nearest municipal landfill.		
Wastewater		N/A
Storm Water Management		N/A
Air Quality		N/A
Water Use		Already provided to the facility
Historical or Cultural Preservation		N/A
Wetlands or Water bodies		N/A
Threatened or Endangered Species		N/A
Other		

4.3. Will the activity be required to adhere to formal engineering designs/plans?
If yes, attach the designs or plans to this ERC/EMMP.

No. The equipment will be placed in the already existing building.

4.3.1. Have the designs or plans been or will they be developed by a qualified engineer?

The activity does not require any engineering plans or design.

For Sections 5 through 12, please fill out the blank column with either "Yes," "No" or "Maybe. Provide a discussion for any of the listed issues that are "Yes" or "Maybe" answers and likely to have a bearing on this activity. Please see the example below:

<p>1.1 Sample question: Does the activity have an environmental impact? [Hitting a return at the end of the question above will automatically format the user input]. Describe the environmental impact here.</p> <p>The generated wood waste (processing of fiberboard/laminate panels) is the only potential environmental impact of this activity. This type of waste is considered non-hazardous, recyclable waste; however, it is not widely recycled in Georgia and, therefore, mainly collected for disposal at municipal landfills. No further potential environmental impact is expected from this activity in case of taking proper mitigation measures. e.g., proper</p>	Yes
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maintenance and functioning of equipment, including appropriate use of personal protection equipment. All these measures are described in the EMMP to this ERC.	
1.1.1 Sample question: Does the activity generate toxic waste? [No response needed if the answer is "No"].	No

5. Land use changes and land impacts

5.1. Will the activity change the land use, e.g., undeveloped, agricultural, residential, commercial, or industrial?	No
5.2. Will the activity require temporary or permanent property land taking?	No
5.3. Will the activity involve site preparation, e.g., clearing and grubbing, grading?	No
5.4. Will the activity involve onsite excavation or trenching?	No
5.5. Will the activity involve the use of borrow pits or quarries? If so, describe the siting, operation, and closure plans.	No
5.6. Will the activity interfere with or connect to existing aboveground or below-ground utilities, e.g., electricity, communications, water, sewer, or natural gas?	No
5.7. Will the activity involve installation of new aboveground or below-ground utilities, e.g., electricity, communications, water, sewer, or natural gas?	No
5.8. Will the activity result in mineral extraction, e.g., aggregate, stone, or coal?	No
5.9. Will the activity result in hydrocarbon extraction, e.g., oil, or natural gas?	No
5.10. Are there known geological hazards, e.g., faults, landslides, or unstable soils which could affect the activity? If yes, how will the project ensure structural integrity?	No

6. Impacts to forestry, biodiversity, protected areas, and endangered species

6.1. Is the site located adjacent to or near a protected area, national park, nature preserve, or wildlife refuge?	No
6.2. Is the site located in or near threatened or endangered (T&E) species habitat?	No
6.2.1. If yes, describe the plan for identifying T&E species during activity implementation. (Non-yes/no question)	
6.2.2. If yes, describe the formal process for halting work, avoiding impacts, and notifying authorities if T&E species are identified during implementation.	
6.3. Is the site located in a migratory bird flight or other animal migratory pathway?	No
6.4. Will the activity involve harvesting of non-timber forest products, e.g., mushrooms, medicinal and aromatic plants (MAPs), herbs, or woody debris?	No
6.5. Will the activity involve tree removal or logging?	No
6.6. Will activities result in increased outdoor noise on a continuous or frequent basis at sound levels that disturb wildlife?	No

7. Water and water quality impacts

7.1. List any National, European Union, or other international water discharge regulations or standards applicable to this activity. (Non-yes/no question) <i>Law of Georgia on Water (1996)</i>	
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7.2. How far is the site located from the nearest river, stream, or lake? (Non-yes/no question) The nearest river Mtkvari flows approximately 1-2 km from the site.	
7.3. Is the site located in a floodplain?	No
7.4. Will the activity increase the risk of flooding at the site or on other property?	No
7.5. Will the activity disturb wetland, lacustrine, or riparian areas?	No
7.6. Will the site require excavation within, placing of fill in, or substrate removal (e.g., gravel) from a river, stream, or lake?	No
7.7. What is the depth to groundwater at the site? (Non-yes/no question) Groundwater distribution starts at different depths in Georgia; in western Georgia, in 5-6 m, and in eastern Georgia, in 10-12 m depth on average. The information on the particular depth of the groundwater in this area is not available. For defining a specific depth of groundwater, detailed geological-engineering studies need to be conducted.	
7.8. Will the activity cause interference with the current drainage systems or conditions?	N/A
7.9. Will the activity result in new or increased ground or surface water extraction? If yes, describe the expected volumes and the permit requirements.	No
7.10. Will the activity discharge domestic or industrial sewage to surface water, groundwater, or a publicly owned treatment facility?	No
7.11. Will the activity change storm water runoff volume, intensity, or locations? If so, describe how the designs/plans effectively and comprehensively address the management of storm water runoff and its effects.	No
7.12. Is there potential for discharge of potentially contaminated (including suspended solids) runoff?	No
7.13. Will the activity result in the runoff of pesticides, fertilizers, or toxic chemicals into surface water or groundwater?	No
7.14. Will the activity involve the use or onsite storage of liquid fuels? If yes, describe the fuel type(s), quantities, storage conditions, and spill control procedures.	No
7.15. Will the activity result in discharge of effluent containing livestock wastes such as manure or blood?	No

8. Atmospheric and air quality impacts

8.1. List any National, European Union, or other international air emission regulations or standards applicable to this activity. <i>Law of Georgia on Ambient Air Protection (1997)</i>	
8.2. Will the activity result in increased emission of air pollutants from a vent or as fugitive releases, e.g., soot, sulfur dioxide, oxides of nitrogen, volatile organic compounds, or methane?	No
8.3. Will the activity involve burning of fossil fuels?	No
8.4. Will the activity involve burning of wood or biomass?	No
8.5. Will the activity install, operate, maintain, or decommission systems containing ozone depleting substances, e.g., freon or other refrigerants?	No
8.6. Will the activity generate an increase in carbon emissions?	No

8.7.	Will the activity increase odor on a continuous or frequent basis?	No
8.8.	Will the activity generate dust on a continuous or frequent basis?	No
8.9.	Will the activity increase the risk of fire, explosion, or hazardous airborne chemical releases?	No

9. Energy efficiency, pollution prevention, and cleaner production

9.1.	Does the activity use renewable energy sources? If yes, describe the energy sources.	No
9.2.	Does the activity require use of energy efficiency equipment? If yes, describe the energy efficiency requirement. The activity does not require energy-efficient equipment; however, priority will be given to the equipment with good energy efficiency performance in the equipment procurement process.	No
9.3.	Does the activity promote pollution prevention and cleaner production measures? If yes, describe the measures. The grant applicant will ensure pollution prevention and cleaner production measures. The wood waste that is the only waste generated from a production process will be further collected and disposed properly.	Yes
9.4.	Does the activity promote maximum reliance on green building or green land-use approaches? If yes, describe the approaches.	No

10. Waste management

10.1.	List any National, European Union, or other international solid waste disposal or storage regulations or standards applicable to this activity. (Non-yes/no question) The waste management sector is regulated by the Law of Georgia "Waste Management Code," which came into force in 2015 and respective legal sub-acts. The Code introduces a 5-step waste management hierarchy system of hazardous, non-hazardous, and inert waste collection, recovery, and disposal. It also introduces and regulates waste management planning, registration, permitting, and control issues. Non-hazardous waste can be disposed of at municipal landfills in case of relevant agreement with special municipal services or Ltd Solid Waste Management Company. In contrast, the holders of specific permits are allowed the management and disposal of hazardous waste. For disposal of hazardous wastes, Grant Applicant should have a relevant agreement with the permit holder.	
10.2.	List any National, European Union, or other international hazardous waste disposal or storage regulations or standards applicable to this activity. (Non-yes/no question) The Law of Georgia, "Waste Management Code," which came into force in 2015, and respective legal sub-acts regulate hazardous waste management.	
10.3.	Describe the local capabilities and facilities for solid, hazardous, and recyclable wastes. (Non-yes/no question) In general, household waste and non-hazardous solid waste, e.g., construction waste and asbestos, can be disposed of at the municipal landfills with the relevant agreement with Tbilisi City Hall (for Tbilisi) or the Solid Waste Management Company (for the rest of the country, except Ajara and Tbilisi)). For recyclable materials, most recycling, e.g., paper, is done by private companies; most of the metal waste is collected by physical persons and	

distributed to the special places where waste metal is sorted and stored for further distribution locally or abroad. There are no specific requirements yet for specific waste, e.g., plastic, electronic appliances, oil waste, tires, batteries, etc., collection and management, but a draft law on Extended Producer Responsibility is intended to regulate this sector further ⁵ . In terms of hazardous waste, only those companies having relevant permits can collect and dispose of such waste or take it abroad for further disposal/destruction.	
<p>10.4. Will the activity generate non-hazardous solid wastes such as construction debris, packaging material, or nontoxic byproducts? If yes, describe expected types and quantities of solid waste and the plans for reuse, recycling, and disposal.</p> <p>The activity does not envisage construction activities. However, activity results in wood waste production (MDF, HPL). Recycling of such waste (production of wood pallets) is not common, and therefore, such waste generally is disposed of at the landfill in agreement with the relevant service of Tbilisi City Hall</p>	Yes
10.5. Will the activity involve the generation and disposal of hazardous waste, such as solvents, acids, caustics, toxics, or other chemicals? If yes, describe the plans for disposal of these hazardous chemicals.	No
10.6. Will the activity involve lead paint or lead-painted building components? If yes, describe the plans for disposal of lead paint containers or lead-painted debris.	No
10.7. Will the activity involve the installation, use, or removal of asbestos-containing materials or building materials that may contain asbestos? If yes, describe the plans for disposal of waste asbestos containing materials.	No
10.8. Will the activity involve disposal or retrofitting of equipment containing polychlorinated biphenyls (PCB), e.g., electrical transformers or fluorescent light ballasts? If yes, describe the plans for disposal of PCB materials.	No
10.9. Will the activity generate any other solid or hazardous wastes requiring specific recycling or waste management plans, such as batteries, fluorescent tubes, aerosol cans, or electronic wastes? If yes, describe the plans for disposal of these materials.	No

11. Pesticide Health, and Safety Impacts

11.1. Will the activity involve use or onsite storage of pesticides?	No
11.1.1. If yes, identify the applicable PERSUAP, including DCN and expiration date. (Non-yes/no question)	
11.1.2. If yes, describe the types and quantities of pesticides.	
11.1.3. If yes, describe the pesticide storage conditions.	
11.1.4. If yes, describe the worker training requirements.	
11.1.5. If yes, describe the personal protective equipment (PPE) to be worn workers.	
11.1.6. If yes, describe public safety precautions.	
11.2. Will chemicals be used or stored at the site? If yes, describe the chemicals, quantities, and storage conditions.	No

⁵ Four technical regulations are already adopted: "Battery and Battery Waste Management" (Government Resolution N324), "On Tire Waste Management" (Government Resolution N325), "On Waste Management of Electrical and Electronic Equipment" (Government Resolution N326), and "On the Management of Waste Oils" (Government Resolution N327).

11.3. Will the activity potentially disturb soil contaminated with toxic or hazardous materials?	No
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12. Social and cultural impacts

12.1. List any National, European Union, or other international historical or cultural preservation regulations or standards applicable to this activity. <i>Not applicable.</i>	
12.2. Will activities result in light pollution, which could adversely affect the natural environment?	No
12.3. Are there cultural or historic sites located at or near the site?	No
12.3.1. If yes, provide a map showing the locations relative to the site.	
12.3.2. If yes, indicate the distance between the activity site and each cultural or historic site.	
12.3.3. If yes, describe the plan for avoiding disturbance or notifying authorities.	
12.4. Are there unique ethnic or traditional cultures or values present at or associated with the site? If yes, what is the applicable preservation plan?	No

13. Further Analysis of Recommended Actions (Most activities will have a threshold determinations of negative determination with conditions.

- 13.1. ☐ **Categorical Exclusion:** The activity is not likely to have an effect on the natural or physical environment. No further environmental review is required.* (This is rarely used in the ERC/EMMP.)
- 13.2. ☒ **Negative Determination with Conditions:** The activity does not have potentially significant adverse environmental, health, or safety effects, but may contribute to minor impacts that can be eliminated or adequately minimized by appropriate mitigation measures. ERC/EMMPs shall be developed, approved by the Mission Environmental Officer (MEO) and the BEO **prior to beginning the activity**, incorporated into workplans, and then implemented. For activities related to the procurement, use, or training related to pesticides, a PERSUAP will be prepared for BEO approval, PERSUAPS are considered amendments to the IEE and usually Negative Determination with Conditions. See Sections H and I below.*
- 13.3. ☐ **Positive Determination:** The activity has potentially significant adverse environmental effects and requires further analysis of alternatives, solicitation of stakeholder input, and incorporation of environmental considerations into activity design. A Scoping Statement (SS) must be prepared and be submitted to the BEO for approval. Following BEO approval of the SS an Environmental Assessment (EA) will be conducted. The activity may not be implemented until the BEO clears the final EA. If the Parent IEE does not have Positive Determination as one of the threshold determinations, the IEE needs to be amended.
- 13.4. ☐ **Activity Cancellation:** The activity poses significant and unmitigable adverse environmental effects. Adequate ERC/EMMPs cannot be developed to eliminate these effects and alternatives are not feasible. The project is not recommended for funding.

***Note regarding applicability related to Pesticides (216.2(e):** The exemptions of §216.2(b)(l) and the categorical exclusions of §216.2(c)(2) **such as technical assistance, education, and training** are not applicable to assistance for the procurement or use of pesticides.

14. EMMPs and ROCs

- 14.1. Activity-specific environmental mitigation and monitoring plan (EMMP): Using the table provided below, list the processes that comprise the activity, then for each process, identify impacts requiring further consideration. For each impact, describe the mitigation and monitoring measures that will be implemented to avoid or to adequately minimize the impacts. All questions in Sections 5 through 12 with Yes or Maybe answers should be addressed. Upon request, the MEO may be able to provide your project with example EMMPs that are specific to your activity.
- 14.2. Annually (or more frequently if required by the Activity Manager/AOR /COR) and at the closeout of the activity, the IP shall prepare a Record of Compliance (ROC) to be submitted to the Activity Manager/AOR/COR. The ROC shall document how the mitigation and monitoring requirements were met. As appropriate, attachments such as site photos, permits, verification of local inspections, product warranties, etc. should be included in the ROC. The ROC shall be posted to the USAID Environmental Compliance Database (ECD).

Processes	Identified Environmental Impacts	Mitigation Measures	Monitoring Indicators	Monitoring and Reporting Frequency	Responsible Parties	Records Generated
1. Planning and Design						
1.1. Design the equipment procurement plans	Equipment can potentially impact land, water, air, and human health.	Equipment procurement plans include environmental considerations. Proper equipment and appropriate technology should be used to minimize the environmental impact.	Documented procurement plan as part of application and grant agreement; Equipment selection criteria include the environmental aspects.	During the application review and entire procurement design process; Before grant award	Technical evaluation committee/procurement specialist Environmental Specialist	
1.2. Selection of Equipment maintenance and storage area/siting	Installation of the equipment in an unsuitable facility can put USAID-financed equipment at risk.	<ul style="list-style-type: none"> - Ensure the building is suitable for installing the equipment; - Ensure that the roof gutters are correctly installed and direct stormwater away from the building in a controlled manner; - Consider the location of the doors and windows to ensure cross-ventilation; - Confirm that there is an emergency exit in case of emergencies. 	<ul style="list-style-type: none"> - Documented site visit memo of Initial Environmental screening; - Visual inspection of the site and its surroundings to identify potential flooding; - Visual inspection of the equipment installation area within the building, including the storage areas (if needed) 	During the application eligibility revision process Initial Environmental Screening; Before the applications are chosen for further consideration.	Environmental Specialist Procurement specialist Grant applicant is responsible for the implementation of mitigation measures.	
1.3 Transportation of the equipment	<ul style="list-style-type: none"> - Technical condition of transport; - Safety of transportation; - Public safety risks; - Traffic congestion. 	<ul style="list-style-type: none"> - Check technical conditions of the transport and relevant documentation; - Use Best Management Practices for load/reload of equipment; - Experienced/trained driver and workers to transport and load/reload equipment; - Preliminary established hours and routes of transportation to minimize traffic disruption; - Protect equipment from 	<ul style="list-style-type: none"> - Transport technical examination; - Inspections to revise conformance with safety/security measures. 	Before and during the transportation.	Supplier	

Processes	Identified Environmental Impacts	Mitigation Measures	Monitoring Indicators	Monitoring and Reporting Frequency	Responsible Parties	Records Generated
		rain and wind while transporting.				
2. Testing, Operation, and Maintenance						
.1 Testing, Operation, and Maintenance of equipment	Operation and maintenance of equipment may cause worker safety problems, including releasing toxic chemicals by polyurethane in case of fire.	<p>Installation and testing to ensure safe operation. A qualified supplier with proven experience should be selected and responsible for installing and testing the equipment and training the grant applicant's staff on Q&M. The respective manuals should be delivered and available in the Georgian language.</p> <p>Day-to-day maintenance and repair activities to keep equipment safe and reliable.</p> <p>Establish and maintain an effective waste management system, including waste prevention, reduction, reuse, and disposal. Ensure that waste management includes collecting waste in proper containers and proper disposal of used or excess supplies/consumables, used batteries, used light bulbs, extra chemicals, chemical containers, or other waste e.g., engine oils, etc.</p> <p>Adequately installed and working ventilation system.</p> <p>Worker Safety Measures</p> <ul style="list-style-type: none"> - Establish and maintain 	<ul style="list-style-type: none"> - Documented testing results; - Documented safety regulations and operational guidelines; - Documented Equipment Safety checklist and guidelines; - Review of types of waste (solid, liquid) and waste quantity; - Relevant waste containers and documented waste management plan: <ul style="list-style-type: none"> • Ensure proper collection e.g., special equipment of metals scraps; • Existence of separate containers for solid, liquid, and hazardous waste; • Availability of waste disposal service company and/or recyclers. • Relevant permits for transportation and disposal of waste. - Number of conducted training and percentage of trained workers; - Inspection of protective equipment available; - Inspection of medical, chemical protection, and first aid kits; - Inspection of fire protection equipment; - Inspection of the ventilation system; 	At project initiation, at least quarterly during the grant period.	<p>Procurement specialist/technical team</p> <p>Supplier</p> <p>Environmental Specialist</p> <p>Grant applicant is responsible for the implementation of mitigation measures.</p>	

Processes	Identified Environmental Impacts	Mitigation Measures	Monitoring Indicators	Monitoring and Reporting Frequency	Responsible Parties	Records Generated
		<p>documented safety procedures and ensure workers/equipment users understand and follow safety instructions supplied on product labels and or described inappropriate guidelines;</p> <ul style="list-style-type: none"> - Establish and maintain worker safety training programs, such as proper use of equipment as well as a safe resolution to emergencies, including fire, etc.; - Use appropriate personal protective equipment (PPE); - Ensure proper dust management, e.g., wet dust prevention measures, if applicable; - Make available where necessary medical and chemical protection and first aid kits; - Establish and maintain a fire control system and fire-fighting equipment, including smoke detectors and fire extinguishers; - Properly maintain ventilation systems to control vapors, and reduce smoke in the workplace. 	<ul style="list-style-type: none"> - Number of accidents and injuries (workers, visitors); - Inspection of equipment; - Interview with the workers. 			

Certification of No Adverse or Significant Effects on the Environment

I, the undersigned, certify that activity-specific baseline conditions and applicable environmental requirements have been properly assessed; that environmental impacts and pesticide-related health and safety impacts requiring further consideration have been comprehensively identified; and that adverse impacts will be effectively avoided or sufficiently minimized by proper implementation of the EMMP(s). If new impacts requiring further consideration are identified or new mitigation measures are needed, I will be responsible for notifying the USAID COR/AOR, as soon as practicable. Upon completion of activities, I will submit a **Record of Compliance with Activity-Specific EMMPs** using a format approved by the MEO.



Mark McCord
Implementer Project Director/COP

May 13, 2022
Date

Approvals:

David Tsiklauri

David Tsiklauri
USAID COR/AOR

Digitally signed by David Tsiklauri
Date: 2022.05.25 09:14:59 +04'00'

Date

Gocha Lobzhanidze

Gocha Lobzhanidze
Mission Environmental Officer

Digitally signed by Gocha Lobzhanidze
Date: 2022.05.25 09:17:02 +04'00'

Date

Concurrence:

Not required per Memo to File DCN: 2020-GEO-035
Bureau Environmental Officer
Europe and Eurasia Bureau

Date

Distribution:

- Project Files
- IEE Files

RECORD OF COMPLIANCE WITH ACTIVITY-SPECIFIC ENVIRONMENTAL MITIGATION AND MONITORING PLANS (EMMPs)

Subject:	Site or Activity Name/Primary Project
IEE DCN:	
ERC/EMMP DCN:	
To:	COR/AOR/Activity Manager Name
Copy:	Mission Environmental Officer Name
Date:	

The [name of the implementing organization] has finalized its activities at the [site name] to [describe activities and processes that were undertaken]. This memorandum is to certify that our organization has met all conditions of the EMMPs for this activity. A summary and photo evidence of how the mitigation and monitoring requirements were met is provided below.

1. Mobilization and Site Preparation
2. Activity Implementation Phase
3. Site Closure Phase
4. Activity Handover

Sincerely,

Implementer Project Director/COP
Name

Date

Approved:

USAID/COR/AOR/Activity Manager
Name

Date

Distribution:

- Project Files
- MEO
- Bureau Environmental Officer